DESIGN

TRUSCON

CANOPY DOORS

For Private Plane Hangars

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TRUSCON STEEL CO.
YOUNGSTOWN 1, OHIO
Subsidiary of Republic Steel Corporation

TRUSCON CANOPY DOORS

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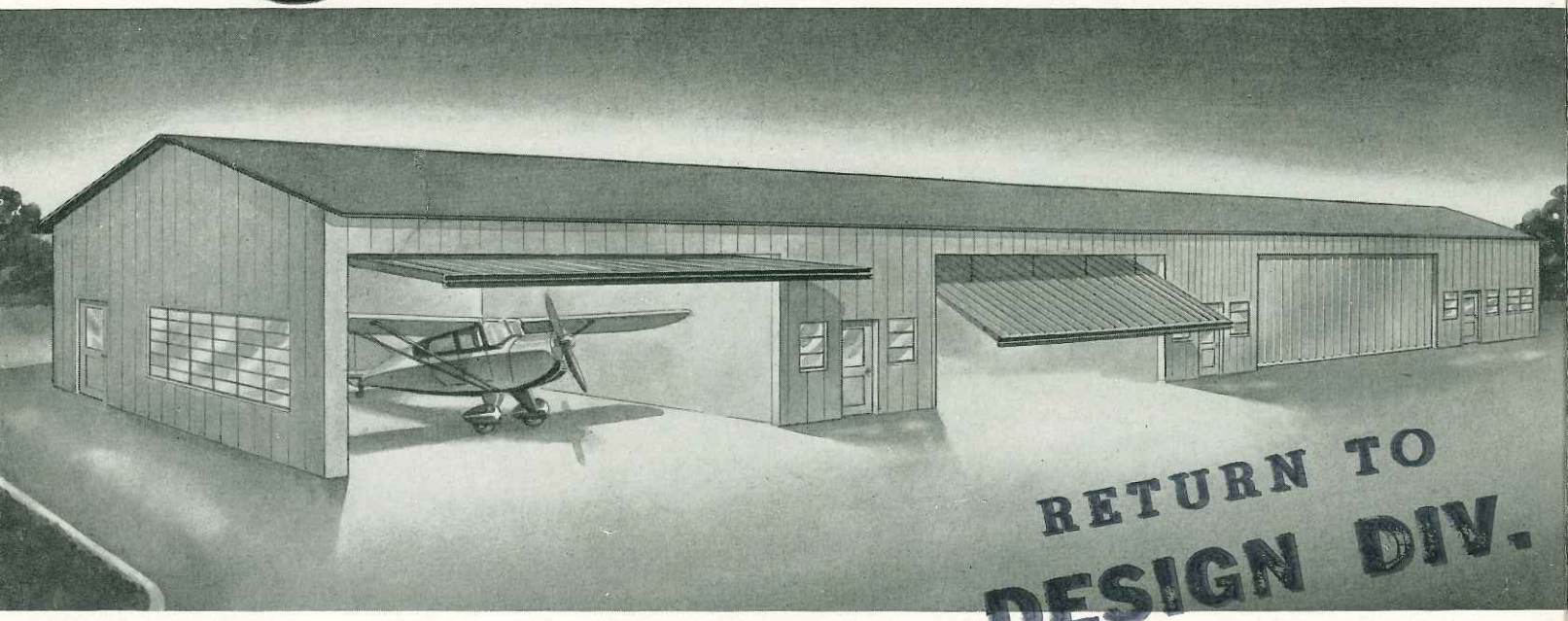
FOR ROW TYPE HANGARS

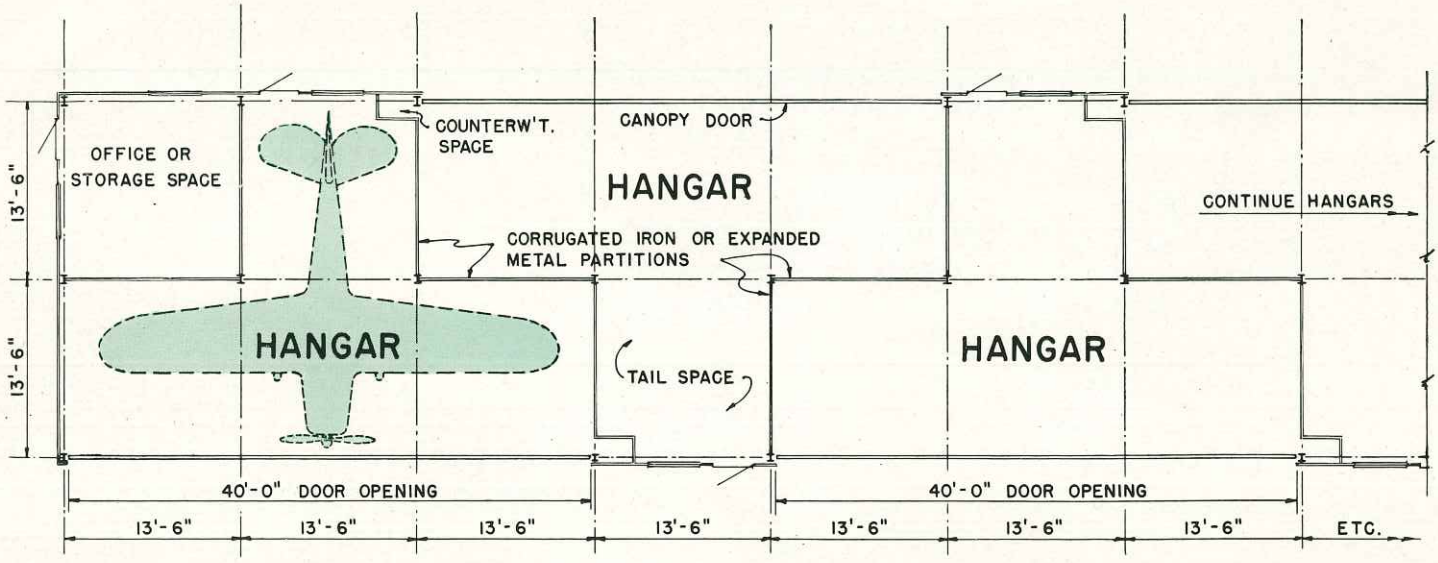


Now Truscon is turning all its 20-year steel door experience, gained through serving America in attaining world commercial and military air insight, to the production of an efficient, low-cost Canopy Hangar Door for civilian plane hangar needs.

The Canopy type door is the most practical for this purpose because it rises vertically and swings out to form a canopy which gives shelter from sun and rain. In addition there are no tracks or other obstructions in the floor to be kept free from ice, snow, dirt and sand.

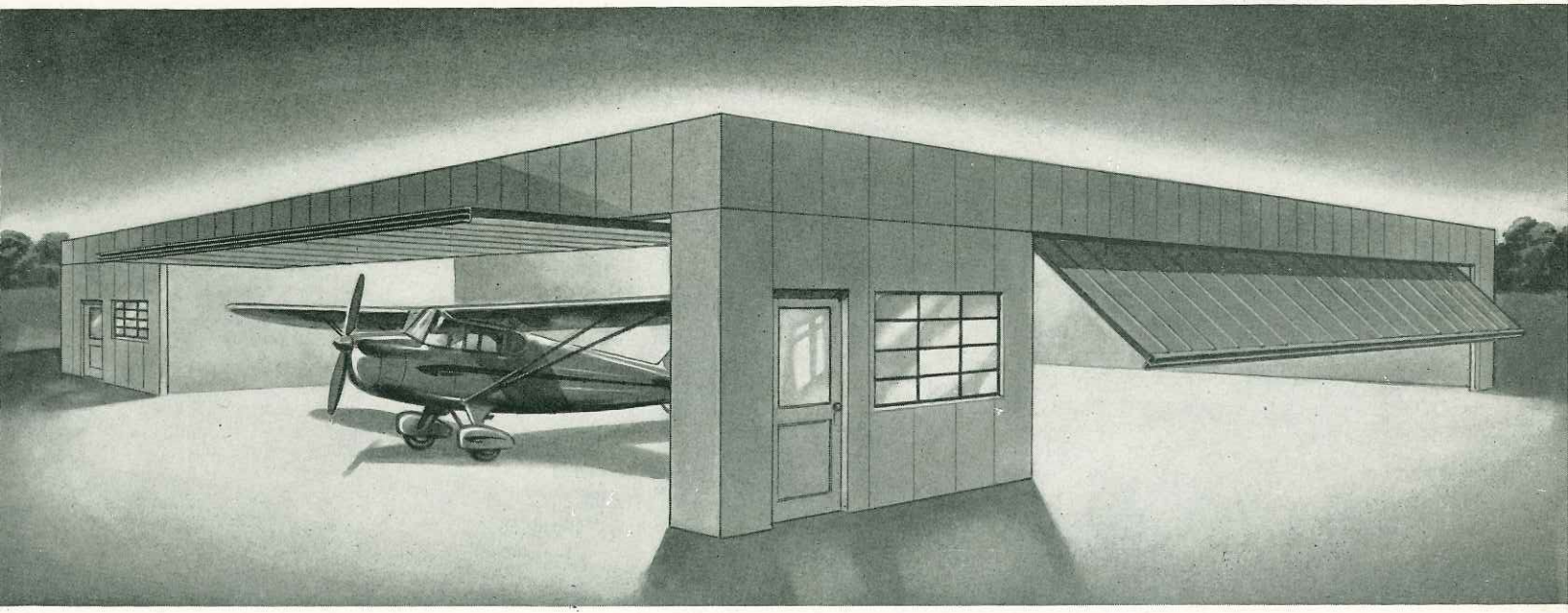
A small chain hoist at one jamb provides the mechanical means for easy operation. Door panels are shipped in two sections for convenient handling and are easily assembled at the job site.

Two standard sizes, 40′-0″ x 9′-7″ and 45′-0″ x 12′-0″ will be available at low cost. Special sizes can be furnished, but special engineering and fabrication result in delayed shipment and higher costs.



TRUSCON CANOPY DOORS

FOR SQUARE TYPE HANGARS



SPECIFICATIONS

1. TYPE OF DOOR: Doors shall be ONE-PIECE CANOPY type as manufactured by Truscon Steel Company, Youngstown 1, Ohio. Doors when open shall form a canopy above the opening projecting approximately one half the opening height beyond the building.

2. SIZES: Standard Sizes are 40′-0″ x 9′-7″ and 45′-0″ x 12′-0″ giving clear opening heights of 9′-0″ and 11′-3″, respectively.

3. CONSTRUCTION: Frame members of door leaves shall be made from formed sections solidly welded together at intersections. Facing shall be 5V grooved, 22 ga. Steel Siding welded to frame with ribs running vertically. Door panels shall be completely shop assembled and shipped in two pieces.

4. OPERATION: Doors are picked up at four points on the outside, about mid-height, by chains operating over sheaves above the door through a hand chain hoist, to a counterweight at one jamb. (Counterweight is not included in door price.)

5. LOCKING DEVICE: Doors shall be locked on the inside in the closed position by means of a spring latch at the top and a cane bolt at the bottom.

6. PAINTING: Doors and accessories shall be given one shop coat of sprayed-on metallic primer.

7. WORK INCLUDED: Complete Door with all operating parts, including jamb guides, and counterweight rack.

8. WORK NOT INCLUDED: Door bucks and other building steel, bolts for attaching guides, and operating parts to building counterweights and field labor of all kinds including field painting.

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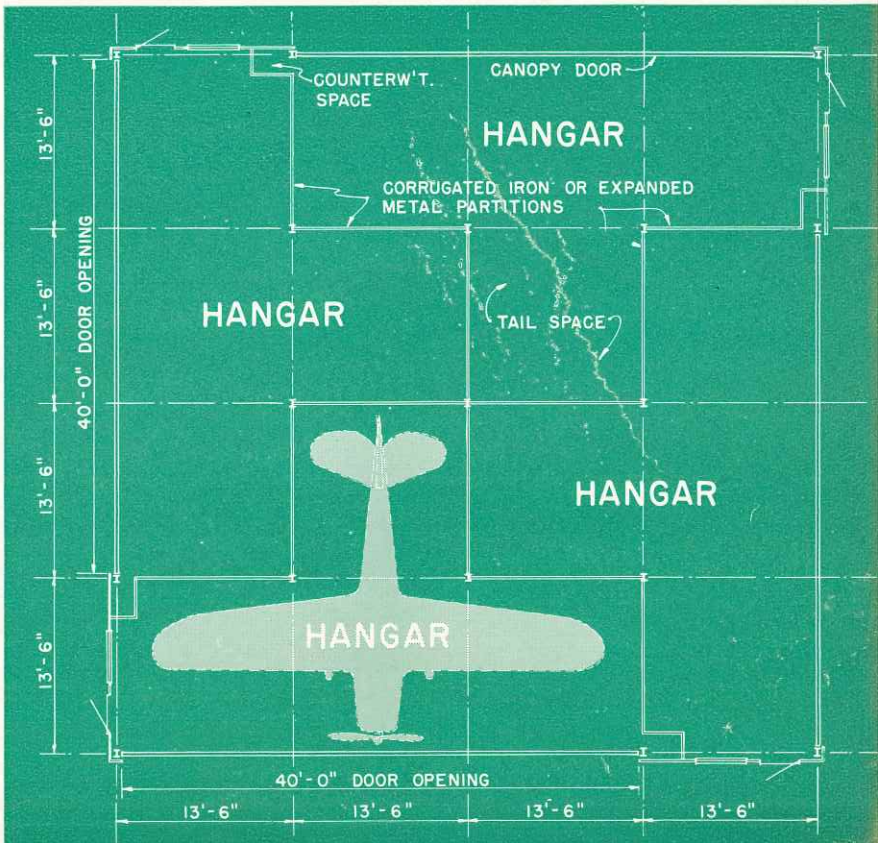
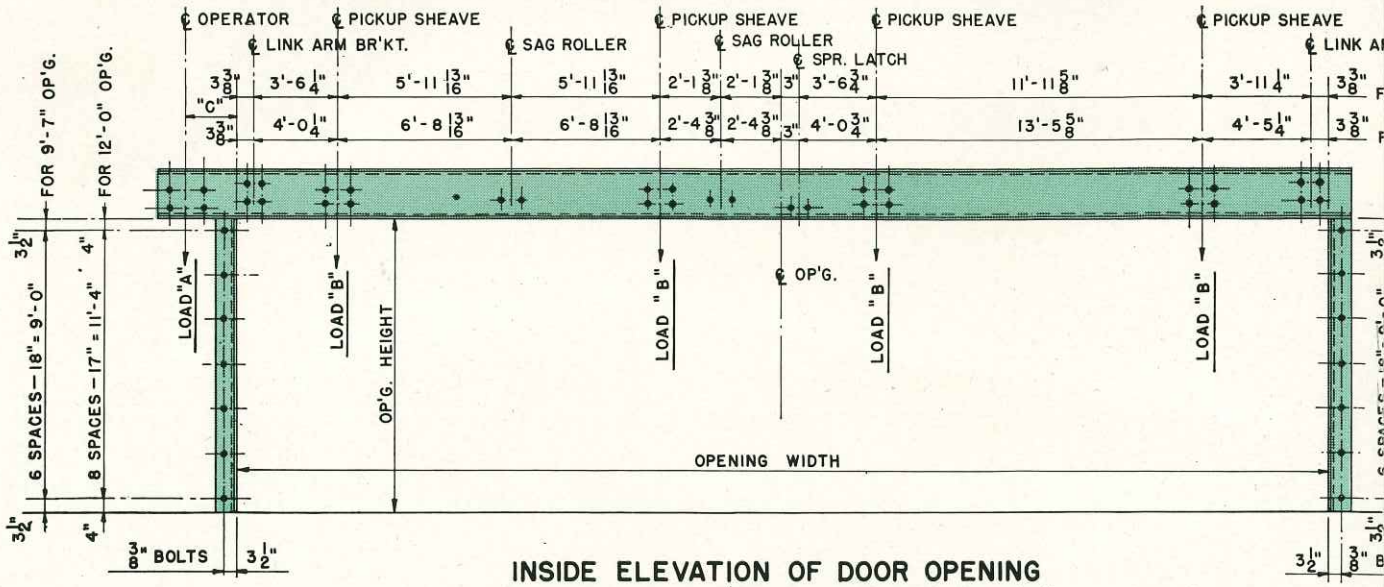
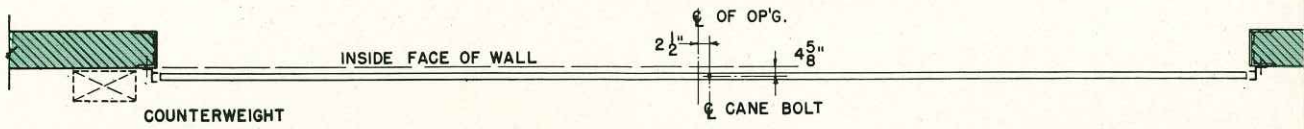


TRUSCON CANOPY STEEL DOORS

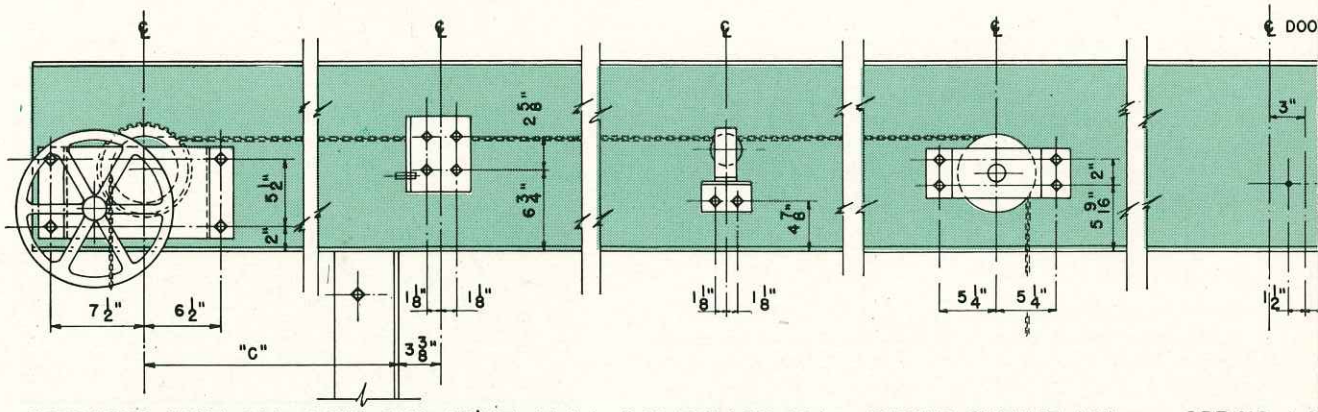


INSIDE ELEVATION OF DOOR OPENING

TWO STANDARD DOORS: 40'-0" X 9'-7" & 45'-0" X 12'-0"
OPENING DIMENSIONS

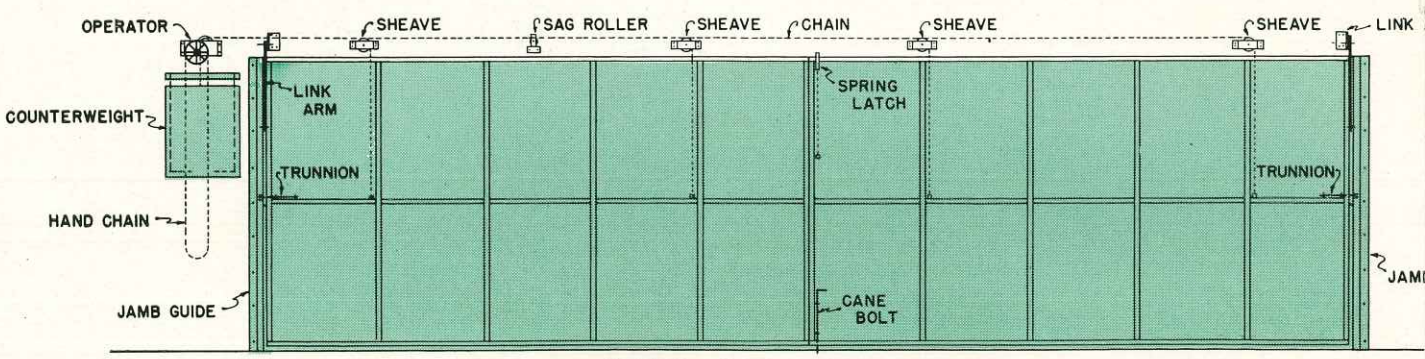


PLAN



OPERATOR UNIT (1) LINK ARM BR'KT. (1-L) SAG ROLLER (2) PICKUP SHEAVE (4) SPRING LA

ENLARGED INSIDE ELEVATION OF LINTEL



INSIDE ELEVATION OF DOOR

FOR PRIVATE PLANE HANGARS

RM BR'KT.

OR 40'-0" OP'G.

TOR 45'-0" OP'G.

9'-7" OP'G.

12'-0" OP'G.

8 SPACES - 17" = 11'-4"

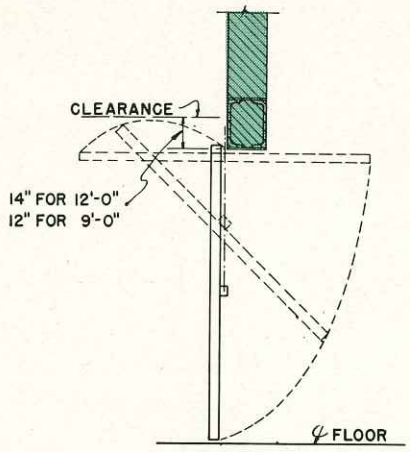
4"

4"

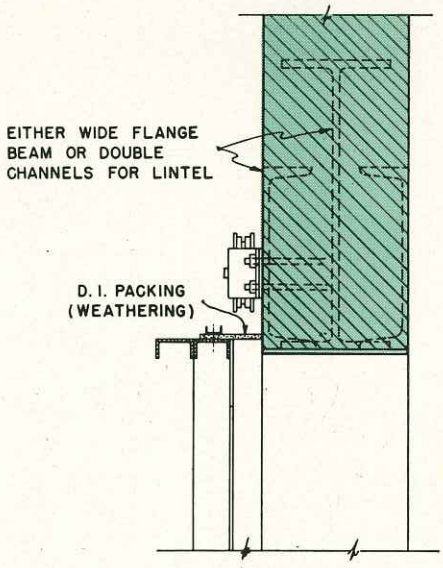
OLTS

LOADING TABLE		
OPENING SIZE	"A"	"B"
40'-0" X 9'-7"	1200	300
45'-0" X 12'-0"	2000	500

DIMENSION "C" =
10 3/4" FOR CAST IRON,
1'-9 3/4" FOR CONCRETE
COUNTERWEIGHTS



VERT. SECTION



HEAD SECTION

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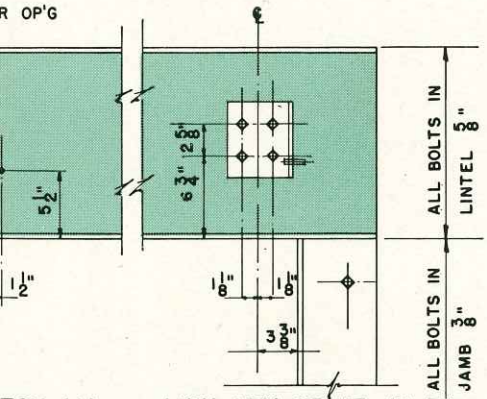
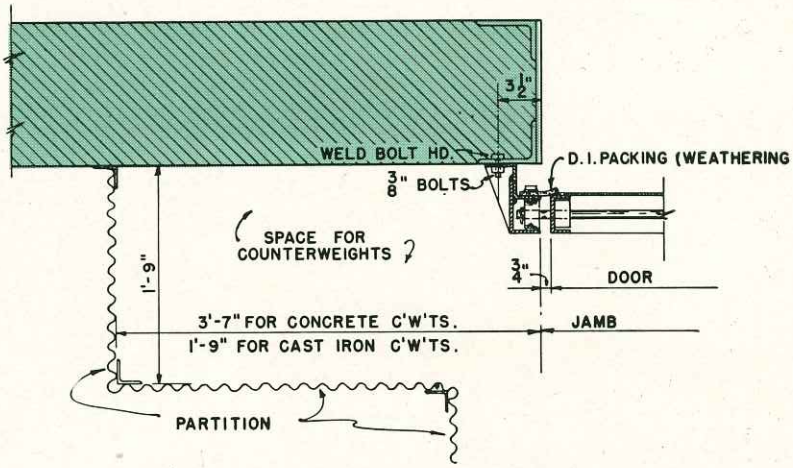
R OP'G



TCH (I)

LINK ARM BR'KT. (I-R)

ARM BR'KT.



JAMB SECTION
AT COUNTERWEIGHT SIDE

OPPOSITE SIDE SIMILAR EXCEPT
SPACE FOR COUNTERWEIGHTS OMITTED

NOTES ON ATTACHING DOOR ACCESSORIES TO BUILDING.

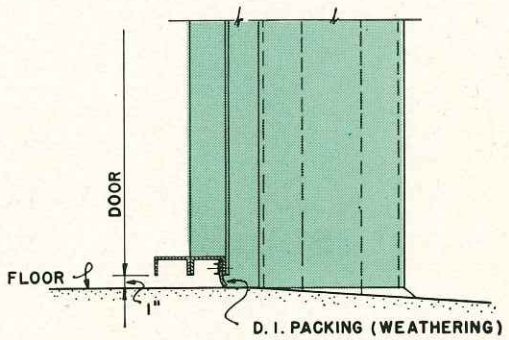
FOR W. F. BEAM OR TRUSS: PROVIDE BRACKETS OUT TO INSIDE FACE OF WALL & 5/8" MACHINE BOLTS.

FOR DOUBLE CHANNEL: PROVIDE & SET 5/8" MACHINE BOLTS THRU WEB — EITHER WELD NUT TO INSIDE, DRILL AND TAP, OR BOLT THRU FROM INSIDE WITH HEAD TACK WELDED.

THE INTENT IS TO PROVIDE A DOOR TOGETHER WITH ALL OPERATING PARTS, EXCEPT COUNTERWEIGHTS, TO FIT AGAINST A FLAT INSIDE WALL SURFACE.

WALL CONSTRUCTION MAY BE EITHER STEEL OR MASONRY.

B GUIDE



SILL SECTION

CONSTRUCTION DETAILS

OTHER TYPES OF TRUSCON STEEL HANGAR DOORS

Regardless of what your door requirements may be, Truscon can furnish an efficient, accurately-designed unit, or series of units. The benefits of Truscon experience gained on the wide variety and large number of hangar door installations for military needs during recent years are now available for the solution of your door problems. This, plus 20 years of successful design and fabrication of steel doors for all types of building, has prepared Truscon to furnish steel doors to meet any need, from the smallest privately owned hangar to large commercial terminals housing passenger and cargo planes.

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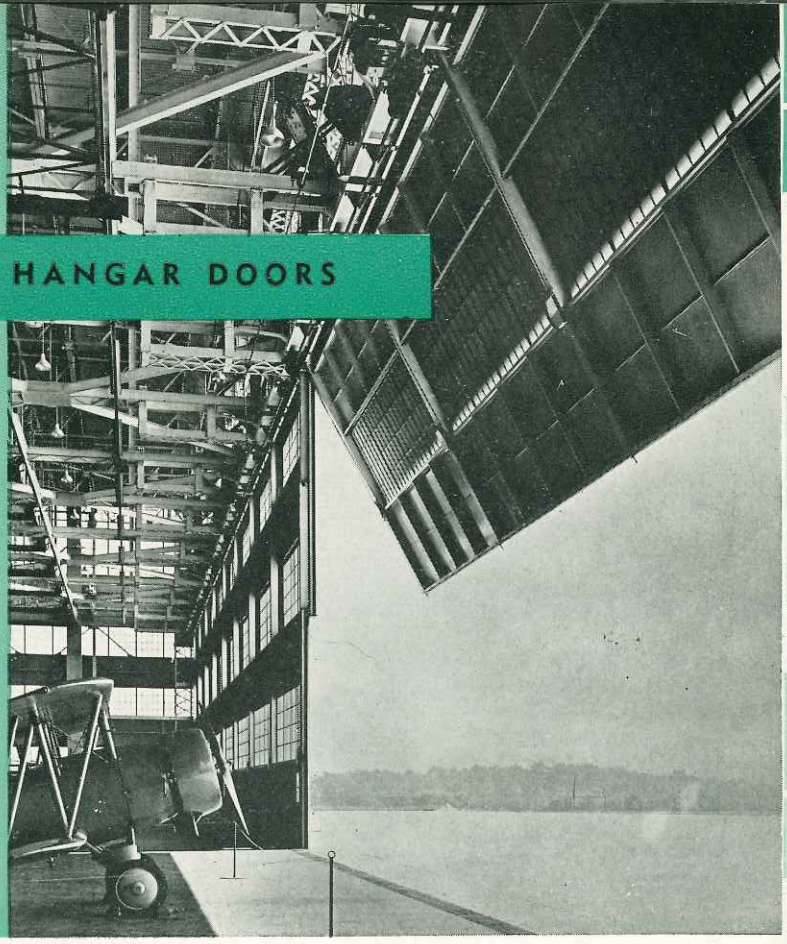
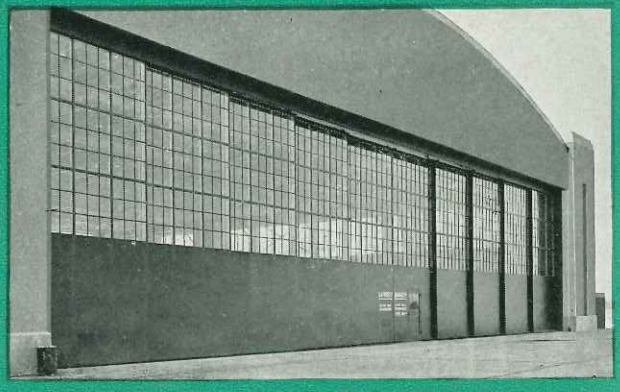
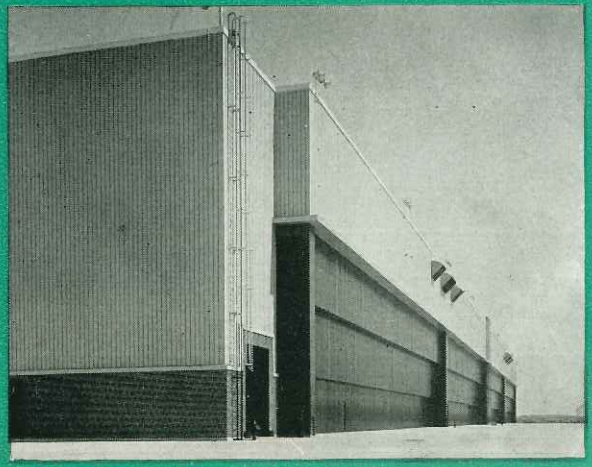


Vertical Lift Canopy Doors — Glenn L. Martin Company, Baltimore, Md.

Braced Canopy Doors — Harrisburg Airport, Harrisburg, Pa.

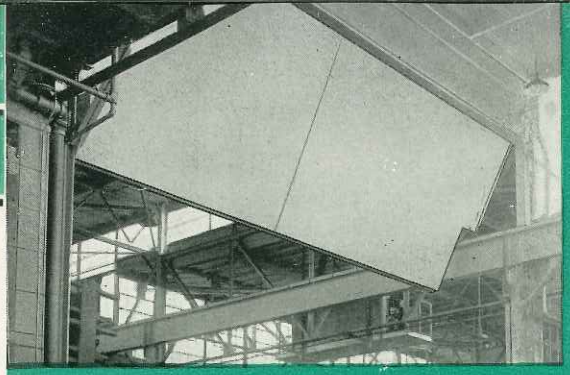


Straight Slide Doors: Jefferson Proving Ground, Madison, Ind.

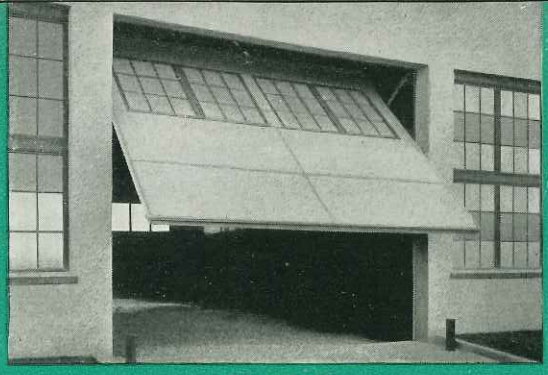


Vertical Lift Doors — Consolidated Aircraft Corp., Fort Worth, Texas.

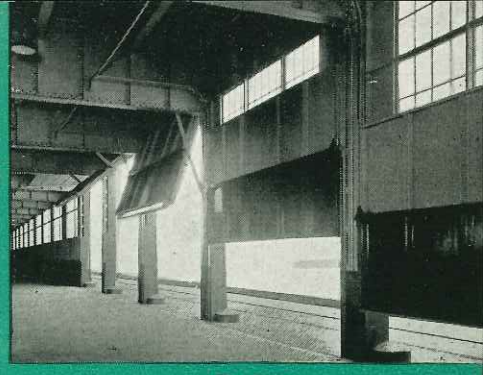
Unbraced Canopy Doors — Municipal Airport, Youngstown, Ohio.



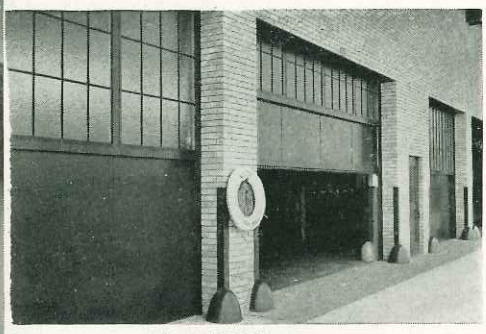
Crane Doors



Canopy Doors



Pier Doors



Vertical Lift Doors

TRUSCON MANUFACTURES A COMPLETE LINE OF INDUSTRIAL STEEL DOORS

Illustrated here are the basic types of Truscon Industrial Steel Doors. These doors embody light-weight construction of strong steels, according to designs that meet efficiently the special needs of the particular jobs for which they are intended.

Adequate stiffness without excessive weight; great torsional strength; permanent rigidity and freedom from sagging; snug fit; easy-operating mechanism for hand or mechanical power; weathertightness; long life in heavy duty — these are some of the Truscon Steel Door advantages that assure economy and satisfaction to you.

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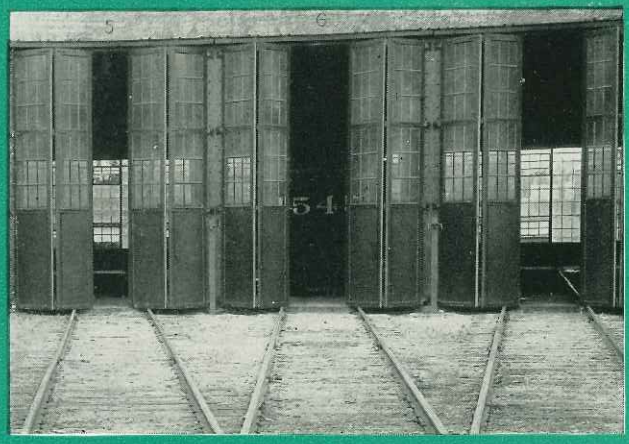
Turnover Doors



Accordion Doors

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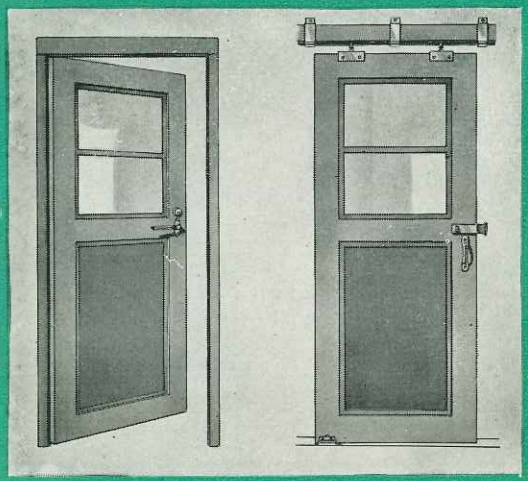
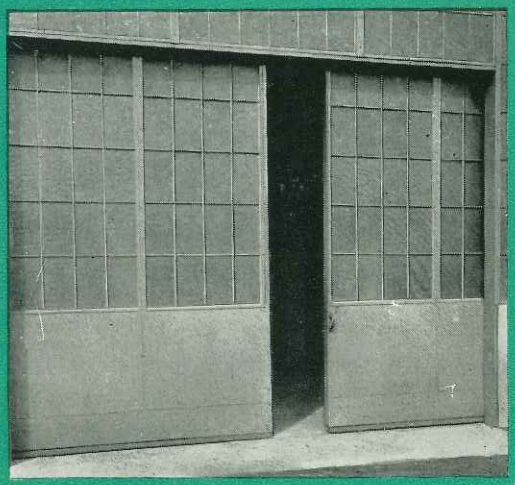
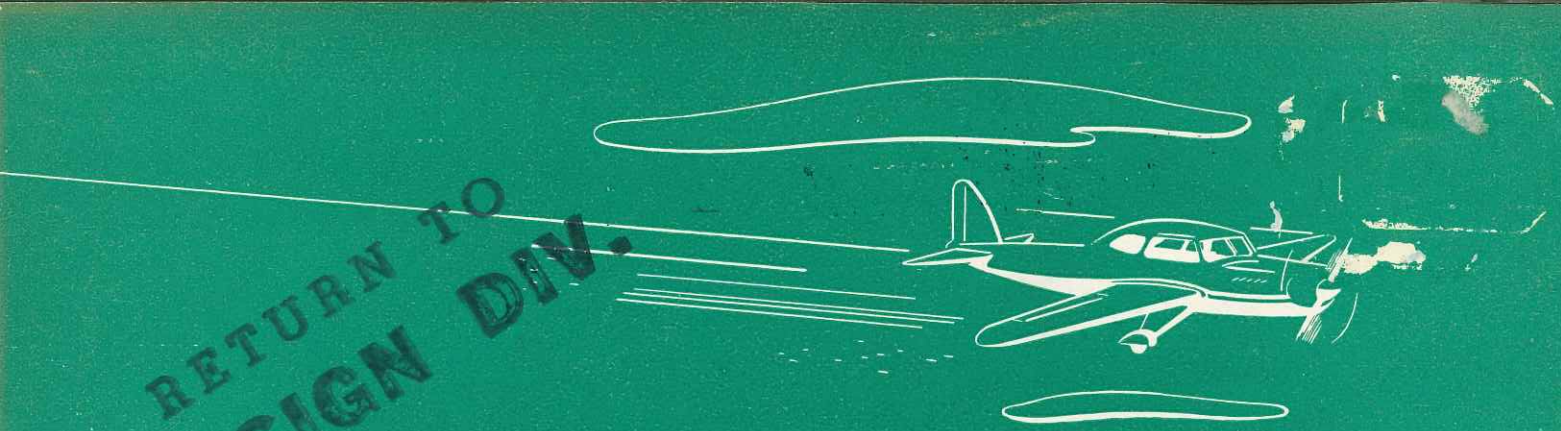


Light Tube Swing and Slide Doors



Heavy Tube Slide Doors

For complete information on Truscon Steel Doors, contact the nearest District Sales Office (see back cover for address), or write direct to Truscon Steel Company, Youngstown 1, Ohio.



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CHICAGO 6, ILL. ..... 201 North Wells Street
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CLEVELAND 15, OHIO ..... 902 Hanna Building
COLUMBUS 15, OHIO ..... 818-821 Atlas Building
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